

I Claim:

1 1. Freestall elevated beam cow stall assembly, comprising
2 at least a pair of vertical posts aligned in respect to a floor of a row of cow
3 stalls;
4 first and second angle brackets each including a side plate mounted onto a
5 respective one of said posts, and an apertured back plate;
6 a plurality of support stanchions each including a vertical rail, an upper
7 receiver affixed at an upper part of the vertical rail, and a lower receiver affixed at
8 a lower part of the vertical rail;
9 a first one of said support stanchions being mounted onto the back plate of
10 said first angle bracket and a second one of said support stanchions being mounted
11 onto the back plate of said second angle bracket;
12 a horizontal beam affixed onto the back plates of said angle brackets and
13 extending transversely between said posts; and
14 at least first and second stall dividers each having an upper horizontal rail
15 and a lower horizontal rail, with ends of the upper and lower rails being mounted in
16 the receivers of said first and second support stanchions, respectively.

1 2. Freestall elevated beam cow stall assembly according to Claim 1 wherein
2 each of said first and second stanchions is mounted by a pair of round U-bolts
3 passing over its vertical rail and through apertures in said back plate.

1 3. Freestall elevated beam cow stall assembly according to Claim 1 wherein
2 said beam is supported on the back plates of said angle brackets by a pair of U-

3 bolts passing through apertures therein.

1 4. Freestall elevated beam cow stall assembly according to Claim 1 wherein
2 said beam is supported at substantially 36 to 39 inches above said floor.

1 5. Freestall elevated beam cow stall assembly according to Claim 4 wherein an
2 unobstructed space is provided between said beam and said floor.

1 6. Freestall elevated beam cow stall assembly according to Claim 1 wherein at
2 least one additional one of said stanchions is supported on said beam at a position
3 between said posts, and at least one additional divider has ends of its upper and
4 lower rails mounted in the upper and lower receivers of the additional stanchion.

1 7. Free stall elevated beam cow stall assembly according to Claim 6, wherein
2 said additional stanchion is mounted by means of a pair of U-bolts passing over
3 said horizontal beam and into clamp means positioned on the vertical rail of said
4 additional stanchion.

1 8. Free stall elevated beam cow stall assembly according to Claim 7 wherein
2 said clamp means comprises an omega clamp positioned on said vertical rail and
3 receiving threaded ends of said U-bolts.

1 9. Free stall elevated beam cow stall assembly according to Claim 6, wherein
2 said additional stanchion is mounted by means of a pair of U-bolts passing over the

3 vertical rail of said additional stanchion and into clamp means positioned on said
4 horizontal beam.

1 10. Free stall elevated beam cow stall assembly according to Claim 9 wherein
2 said clamp means comprises an omega clamp positioned on said horizontal beam
3 and receiving threaded ends of said U-bolts.

1 11. Free stall elevated beam cow stall assembly according to Claim 1 wherein
2 the receivers on each said stanchion include channel members into which the ends
3 of the respective upper and lower rail end are received.

1 12. Freestall elevated beam cow stall assembly according to Claim 1 wherein the
2 receivers of said stanchions are double-ended and are adapted to receive rail ends
3 of a pair of dividers that project in opposite directions with respect to said beam.

1 13. Freestall elevated beam cow stall assembly according to Claim 1 wherein the
2 side plate and the back plate of each said angle bracket are joined at a right angle.

1 14. Freestall elevated beam cow stall assembly according to Claim 1 further
2 comprising a neck rail traversing the upper rails of said dividers and affixed onto
3 each of the upper rails at positions spaced from the associated stanchions.

1 15. Freestall elevated beam cow stall assembly according to Claim 1 further
2 comprising a brisket rail traversing the lower rails of said dividers at a position

3 below the lower rails and spaced from the associated stanchion.

1 16. A vertical stanchion for use in supporting a pair of stall dividers, comprising a
2 vertical tube member, an upper receiver formed of a channel and affixed onto an
3 upper end of said vertical tube member such that the upper receiver projects in two
4 opposite directions from the tube member; and a lower receiver formed of a
5 channel and affixed onto a lower part of said vertical tube member such that the
6 lower receiver projects in two opposite directions from said tube member.

1 17. A vertical stanchion according to claim 16 wherein each said channel is
2 oriented with a web thereof on an upward facing side, and an open side facing
3 downwards.

1 18. A vertical stanchion according to Claim 16 further comprising a ground
2 support member extending downward below said lower receiver, said ground
3 support member terminating at a ground support plate at its lower end.

1 19. An angle bracket for supporting a cow stall divider stanchion and a horizontal
2 elevated beam upon a vertical post, comprising a side plate having at least a pair of
3 bolt holes therethrough to receive mounting bolts for attaching the side plate to said
4 post, and a back plate joined at a right angle to said side plate, and having a first
5 pair of bolt holes at its upper end to receive a U-bolt for attaching to said stanchion,
6 a second pair of bolt holes at its lower end to receive a U-bolt for attaching to said
7 stanchion, and three additional pairs of bolt holes each pair disposed at a spaced

8 vertical position between said first and second pairs of bolt holes, for receiving U-
9 bolts to attach to said horizontal beam.

1 20. An angle bracket according to Claim 19 wherein the bolt holes in said side
2 plate are arranged one above the other.